Amendments to the Claims:

The following claims will replace all prior versions of the claims in this application (in the unlikely event that no claims follow herein, the previously pending claims will remain):

- 1. (Currently Amended) A method for forming a micro pattern, comprising the steps of:
- (a) providing a semiconductor substrate in which a lower film is formed <u>using TiN</u>, <u>SiON</u>, Si₃N₄, organic anti-reflection coating of amorphous carbon series or an inorganic anti-reflection coating;
 - (b) coating a first photoresist film on the lower film;
- (c) depositing a second photoresist film having a higher glass transition temperature than the first photoresist film on the first photoresist film;
- (d) patterning the second photoresist film and the first photoresist film by an exposure process and a wet development process, thereby forming a first photoresist film pattern and a second photoresist film pattern defining a first contact hole therethrough;
- (e) implementing RFP to cause the first and second photoresist film patterns to flow so that the first contact hole changes to a second contact hole having a lower critical dimension than the first contact hole; and
- (f) implementing an etch process using the second photoresist film pattern as an etch mask for the lower film to pattern the lower film.
 - 2. (Cancelled)
- 3. (Original) The method as claimed in claim 1, wherein the difference in a glass transition temperature between the first photoresist film and the second photoresist film is 1 ~ 10°C.
- 4. (Original) The method as claimed in claim 1, wherein the first photoresist film and the second photoresist film have the same physical properties other than the glass transition temperature.
- 5. (Original) The method as claimed in claim 1, wherein the first photoresist film is coated in thickness of 0.1 \(\mu \)

Application No. 10/614,182 Amendment dated July 1, 2005 Page 3

- 6. (Original) The method as claimed in claim 1, wherein the second photoresist film is coated in thickness of 0.5μ m
- 7. (Original) The method as claimed in claim 1, wherein the exposure process employs I-line, KrF, ArF, EUV, E-beam or X-ray as a photoresist.
- 8. (Original) The method as claimed in claim 1, wherein during the RFP, a heating time is $50 \sim 200$ seconds.
- 9. (Original) The method as claimed in claim 1, wherein the RFP is implemented at a temperature of 132°C for 90 seconds.
- 10. (Original) The method as claimed in claim 1, wherein the critical dimension of the first photoresist film pattern is 0.20µm
- 11. (Original) The method as claimed in claim 1, wherein the critical dimension of the second photoresist film pattern is $0.13\mu\text{m}$